Amendments to the Claims:

Please use the following listing of claims to replace all prior versions, and listings, of the claims in the above-identified application.

Listing of Claims:

- 1 Claim 1 (Currently Amended)
- 2 A corner-cube reflector having three reflective surfaces comprising:
- at least one of said reflective surfaces being a surface of a bimaterial cantilever that
- 4 changes between a substantially planar shape and a curved shape upon exposure to an agent of
- 5 interest wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever,
- 6 said agent sensitive coating being substantially transparent to electromagnetic radiation.
- 1 Claim 2 (Original)
- The apparatus of claim 1 wherein said bimaterial cantilever is chosen from the bimaterial
- group of Au-Si, Pd-Si, Au-Si3N4, and Pd-Si3N4.

Claim 3 (Canceled)

Claim 4 (Canceled)

Claim 5 (Withdrawn) 1 An apparatus comprising: 2 a reflector having three reflective surfaces that are mutually orthogonal when said 3 reflector is in a first condition, wherein at least one of said reflective surfaces is a surface of a 4 bimaterial cantilever that goes from a substantially planar shape when said reflector is in said 5 first condition to a curved shape when said reflector is in a second condition; 6 7 a source of electromagnetic radiation for projecting said electromagnetic radiation to said reflector; and 8 a detector disposed to receive electromagnetic radiation as reflected from said reflector. 9 Claim 6 (Withdrawn) 1 The apparatus of claim 5 wherein said bimaterial cantilever is chosen from the bimaterial 2 group of Au-Si, Pd-Si, Au-Si3N4, and Pd-Si3N4. 3 Claim 7 (Withdrawn) 1 The apparatus of claim 5 wherein an agent sensitive coating is disposed on a surface of 2 said bimaterial cantilever, said agent sensitive coating being substantially transparent to said 3 electromagnetic radiation. 4 Claim 8 (Withdrawn) 1 The apparatus of claim 5 wherein an agent sensitive coating is disposed on a surface of 2

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- said bimaterial cantilever, said agent sensitive coating being substantially reflective of said
- 4 electromagnetic radiation.
- 1 Claim 9 (Withdrawn)
- The apparatus of claim 5 wherein said detector detects the intensity of electromagnetic
- 3 radiation as received at said detector.
- 1 Claim 10 (Withdrawn)
- 2 The apparatus of claim 5 wherein said detector detects the phase of electromagnetic
- 3 radiation as received at said detector.
- 1 Claim 11 (Withdrawn)
- 2 The apparatus of claim 5 wherein said detector detects the angle of said electromagnetic
- 3 radiation as received at said detector.
- 1 Claim 12 (Withdrawn)
- 2 A sensor comprising:
- a corner cube reflector having three reflective surfaces that are mutually orthogonal in a
- 4 first sensing condition, wherein at least one of said reflective surfaces is a surface of a bimaterial
- 5 cantilever that goes from a substantially planar shape when said corner cube reflector is in said
- first sensing condition to a curved shape when said corner cube reflector is in a second sensing

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a source of electromagnetic radiation for projecting said electromagnetic radiation to said corner cube reflector; and

a detector disposed to receive electromagnetic radiation as reflected from said cornercube reflector, said received electromagnetic radiation having of a first state corresponding to said first sensing condition of said corner cube reflector and having of a second state different from said first state and corresponding to said second sensing condition of said corner cube.

Claim 13 (Withdrawn)

The apparatus of claim 12 wherein said bimaterial cantilever is chosen from the bimaterial group of Au-Si, Pd-Si, Au-Si3N4, and Pd-Si3N4.

Claim 14 (Withdrawn)

The apparatus of claim 12 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially transparent to said electromagnetic radiation.

Claim 15 (Withdrawn)

The apparatus of claim 12 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially reflective of said electromagnetic radiation.

l	Claim	16	(Withdra	awn)

A sensing method comprising the steps of:

providing a corner cube reflector having three reflective surfaces that are mutually orthogonal in a first sensing condition, wherein at least one of said reflective surfaces is a surface of a bimaterial cantilever that goes from a substantially planar shape when said corner cube reflector is in said first sensing condition to a curved shape when said corner cube reflector is in a second sensing condition;

providing a source of electromagnetic radiation for projecting electromagnetic radiation to said corner-cube reflector; and

providing a detector disposed to receive electromagnetic radiation as reflected from said corner-cube reflector, wherein said received electromagnetic radiation has a first state corresponding to said first sensing condition of said corner cube reflector and has a second state different from said first state and corresponding to said second sensing condition of said corner cube.

Claim 17 (Withdrawn)

The method of claim 16 further comprising the step of coating a surface of said bimaterial cantilever with an agent sensitive coating that is substantially transparent to said electromagnetic radiation.

1 Claim 18 (Withdrawn)

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The apparatus of claim 16 wherein an agent sensitive coating is disposed on a surface of said bimaterial cantilever, said agent sensitive coating being substantially reflective of said electromagnetic radiation.

Claim 19 (New)

The apparatus of claim 1 wherein said agent sensitive coating selectively bonds to a chemical or biological species and wherein said bimaterial cantilever changes between said substantially planar shape and said curved shape upon said agent sensitive coating being exposed to said chemical or biological species.

Claim 20 (New)

- 1 A corner-cube reflector having three reflective surfaces comprising:
 - at least one of said reflective surfaces being a surface of a bimaterial cantilever; and an agent sensitive coating disposed on said surface of said bimaterial cantilever to selectively bond to an agent of interest, wherein said bimaterial cantilever changes between a substantially planar shape and a curved shape upon exposure to said agent of interest.

Claim 21 (New)

The apparatus of claim 20 wherein said agent of interest is a chemical or biological species.